TENNEY SERVICE

AUGUST, 1919

LADIES AT THE ANNUAL OUTING OF THE FITCHBURG GAS AND ELECTRIC CLUB

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TENNEY SERVICE

Vol. VI Boston, Mass., August, 1919 No. 8

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GASOLINE DISTRIBUTING STATION FOR BOSTON HARBOR OIL COMPANY

By R. P. Priest—Charles H. Tenney & Co.

The Boston Harbor Oil Co. is an organization which distributes gasoline and oil, its place of business being at the extreme end of Northern Avenue, beyond the Commonwealth Dock and the Fish Pier. They lease a building on the westerly side of Northern Avenue and a lot of land in the rear, and they also lease the breakwater which protects the fish pier. This breakwater extends from a point on the easterly side of Northern Avenue, directly opposite the Company's offices, out into the harbor to the U. S. Pierhead line, a distance of about 1300 feet.

Buried in the lot at the rear of the Company's offices are two 20,000 gallon tanks and one 15,000 gallon tank for gasoline storage. These tanks are filled by gravity from tank cars which come in on a spur track at the back of the lot.

In the middle of the lot is a brick pump house containing a motor-driven pump, meters and connections. This pump pumps gasoline from the storage tanks to tank trucks for general distribution and to a smaller tank which supplies a sidewalk pump for local distribution.

About two and a half years ago the idea was conceived of running a pipe line out on the breakwater and installing the necessary apparatus for distributing gasoline and oils to the fishing boats and other motor craft in the harbor.

Preliminary investigations and plans were made by the writer at that time but, owing to war conditions, the matter was dropped.

The project was taken up again this spring and, during the month of May, Chas. H. Tenney and Co. obtained the contract for doing the engineering and construction work.

The work in general will be the following:

View Towards End of Breakwater Showing Piling for Head House

At side of present pump house erect a one-story brick building for housing motors and compressor plant.

At side of this new house bury in pits constructed for the purpose, one 2000 gallon supply tank and one 800 gallon working tank.

Run a pipe line from tanks and pump house, under Northern Avenue and out along the breakwater to a headhouse and platform which will be erected on piles near the end of the breakwater.

Run electric connections and telephone line on same locations as pipe line.

Build a walk and rail on top of the breakwater for access to the headhouse.

Install compressor plant, motors, necessary connections and control apparatus.

The compressor house is to be built

of brick on a concrete foundation. This house will contain the compressor and air tank and motors for driving the compressor and the present pump; also a ¼ H. P. motor for driving the mechanism which would operate the valves

View at End of Breakwater Looking Towards Shore, Showing the Piling for Head House

on the control panel. The control panel for air and gasoline will be in the present pump house, keeping the electrical apparatus in a separate building from the gasoline apparatus.

The pit for the supply tank and working tank will be about 14 ft. x 19 ft. and 17 ft. deep at the lowest point. This depth, which is nearly down to mean low water or grade zero, is necessary in order that tanks may be low enough to insure drainage of the pipe line which pitches back from the headhouse to the tanks a distance of about 1400 feet.

The tanks will be anchored down to masses of concrete of sufficient weight to overcome the buoyancy of the tanks when empty and surrounded by water.

The pits will be close sheathed with 4-inch tongue and groove planked braced be left in place after the tanks are placed and the pit filled in around the tanks with cinders or other easily excavated material.

The pipe line will be of 2½-inch wrought iron pipe having joints made up with screw couplings and then welded, making the whole line one continuous pipe.

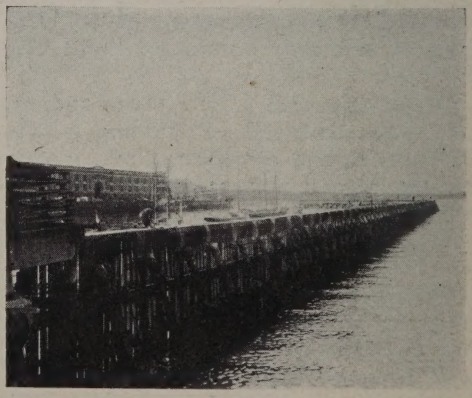
The pipe line will be supported on the side of the breakwater by hangers every 8 feet and will be securely anchored to the breakwater every 100 feet. Half way between each two anchorages will be a return bend to take care of expansion in the line.

The structure on the breakwater at the end of the pipe line will consist of a platform about 20 ft. x 28 ft., carrying a house about 12 ft. x 20 ft. This structure will rest partly on the breakwater and partly on piles driven inside the breakwater. There is about 25 feet of water at this point at low tide; the piles would be driven about 20 feet into the bottom and the top of the breakwater is at grade 15, which means that the piles would be about 60 feet long. They will be oak.

On top of the piles and breakwater will be placed four 10-inch 35-lb. I beams to carry the platform and house.

The house will be steel-framed, covered with 3-inch plank bolted to steel, and will be covered inside and out with sheet metal. Large deadlights will be used in place of windows. This structure must be particularly strong and well anchored on account of exposure to wind and waves during storms.

Beside the meters and discharge pipe for gasoline, the headhouse will contain oil tanks having a capacity of about 15 barrels.



View Looking the Length of Breakwater Showing Boardwalk Under Construction. The Fish Pier is at Left

In operating, gasoline would be pumped by the present pump from the storage tank to the supply tank and run

PRESENT PUMP HOUSE AT RIGHT
SHEATHING FOR TANK PITS AT LEFT
NEW COMPRESSOR HOUSE GOING UP IN CENTRE

by gravity to the working tank. The gasoline would then be forced by air pressure from the working tank through the control panel and through the long pipe line to the headhouse where it would pass through the meters to the boats. The whole operation is electrically controlled from the headhouse.

The system decided on for handling gasoline is known as the Allen Pressure System and will be installed by the Allen Engineering Co. of Boston. This Company will also put in the pipe line and connections.

The pile work is being done by the Aberthaw Construction Co. and the steel work for the headhouse has been let to the New England Structural Co.

The carpentry and other work on the headhouse and platform, the walk on the breakwater, tank pits and foundations and the compressor house will be done by the Chas. H. Tenney & Co. forces.

Construction work was started on July 2 and is now progressing on the compressor house, tank pits, walk on breakwater, pipe line and piling for headhouse as shown by photos taken on July 25.

The engineering and construction work is in general charge of the writer.

PUBLIC OWNERSHIP NOTES

By F. G. R. GORDON in the N. E. L. A. Bulletin

Kansas City, Kansas, owns and operates an electric lighting plant. In the 1917 report the managers told the world that there was a profit on that plant. An investigation proved that in place of any profit there was a loss of $60,000. This is about the usual way that investigations of municipal plants turn out. But it sounds just fine to brag about a "success" that is a great failure. Municipal ownership creates high taxes, but it seldom pays any taxes in the way of earning profits. When Kansas City, Kansas, socialized her electric lighting plant, the tax rate was $1.50 per $100. In 1917, before the war had any influence on rates, the tax rate had increased to $2.20 per $100. High taxes are fine, aren't they!

REVERE AND SALEM FIELD DAY AND OUTING

Time—Wednesday, July 23rd, 1919
Place—Wardhurst, Lynnfield, Mass.

Miss Alice M. Barry, Correspondent

Are you ready for another outing? Those who were fortunate enough to attend the joint field day of the Salem Electric Lighting Company and the Suburban Gas & Electric Company will surely say yes. From the very start to the finish every minute was enjoyed. Even if King Sol didn't shine forth on Wednesday morning, July 23rd, the spirits of the Salem and Revere employees were not darkened—we had planned for an outing and it was going to be carried out.

Arrangements were made with Hap Ward, formerly connected with the famous Ward & Vokes, Comedians, and —by the way—former residents of Revere—to hold the field day at Wardhurst, Lynnfield. Automobiles conveyed the parties from Salem and Revere and, with the exception of the two machines from Revere that went sightseeing through Lynn, all arrived at the club about half past eleven. Oh, yes; someone else was late, too. Mr. Meldon from Salem would have arrived in better season if he didn't have to stop for Mr. Hadley and look for—blueberries.

After the Salemites and Revereites became acquainted, dancing was in order with Miss Blood of Salem, Miss Mary Sweeney and Mr. Carver from Revere favoring at the piano until noon, when the orchestra arrived. We must admit we have some very good dancers from Revere, but when it is a question of who covers the most space in the shortest period of time, all awards should be given to Mr. Jenks and Miss Hughes of Salem. Four couples from Salem and Revere participated in a Virginia Reel after the first course of the dinner, which was served at one o'clock.

And here comes the interesting part, at least it appeared appetitizing to everyone when they took their places at the table. We don't intend to have the forthcoming arouse a ravish longing, but just as a pleasant reminder for ourselves, we give a copy of the menu card.

Salem-Revere Get Together Banquet
Wednesday, July 23, 1919
MENU

P-Nuts Insulated Gardella Olives
Soup without a squeak a-la Smith
Tenney Salad
Steamed Clams a-la Point of Pines
Clam Broth a-la Bessom's Beach

High Tension Biscuits
Broiled Lobster a-la Frank
Pommes de Terres a-la Revere Beach
Revere & Salem Chickens
Pears a-la A. E. F.
Ice Cream Bar-nard style (without)
Don cantelope with Sallie
Aul-in cake with Cookie
Coffee high voltage no Jenks

By the time this excellent dinner disappeared from view, the rain had also disappeared and the photographer appeared on the scene. An hour later when the proofs were shown, the popular saying was "Didn't the pictures come out good," and truly we think they did—even if we do say so ourselves.

The results of the other outdoor sports are given below:—

Fat Men's Race—Mr. Pierce, Salem.

Three Legged Race—Messrs. Wm. Wood and Sugden, Revere.

300 Yard Dash—Messrs. William Wood, Revere, 1; Smith Sugden, Revere, 2; Wm. E. Downs, Revere, 3.

Tape Cutting Contest—Miss Temple, Salem.

50 Yard Dash, Girls—Miss Elizabeth Sweeney, Revere.

Peanut Race, Walking—Miss Elizabeth Sweeney, Revere.

Peanut Race, Running—Miss Hoyt, Salem.

During the afternoon the orchestra

The next exciting moment was when we heard the announcement of a ball game between Revere and Salem. Mr. Chisholm and Mr. Smith pitched the firs tinnings and, judging from their professional attitude, they must have been practicing for some time. In recognition for their good work, Mr. Smith received a miniature curling iron and Mr. Chisholm a hair switch. The score was 4 to 1 in favor of Salem. The ball game between the married and single men was won by the former with a score 2 to 1.

favored with selections for those who cared to dance, but the time passed all too quickly.

About half past five all started on their homeward journey with full satisfaction of having spent an exceptionally pleasant day.

Committee, Suburban Gas & Elec. Co.: C. F. Chisholm, A. F. Gardella, H. M. Frank.

Committee, Salem Electric Ltg. Co.: W. P. Verry, J. A. Aulin, F. C. Tobin, W. H. Barnard.

HOW CAN ENGINEERS BE OF THE GREATEST USE TO CIVILIZATION?

From *Mechanical Engineering*

TO THE EDITOR:

Engineering depends upon knowledge of facts and upon putting that knowledge into practice.

The exact form that the practice may take is guided by the conditions at the time and place concerned. There may be differences of opinion as to the exact value of those facts because of difficulty in getting perfect measurements, but as to the facts themselves, engineers are agreed.

It does not matter to the engineer whether these facts are found in a book on physics, or natural philosophy, or the first book of science, or whether they are found in an engineer's handbook.

Imagine, if you can, an engineer proposing that the law of gravity for a certain place be established by a vote of the people, or that delegates be appointed who should meet with delegates from other countries to come to a working understanding on a fair and just multiplication table, or that designers should get together and compromise their differences so that the mechanical properties of bodies should be the same in all countries!

There may have been a time when such an attempt could have been made, but if so, it was before there was any general knowledge of the principles upon which engineering is founded.

Many times statements come from engineering sources that engineers do not receive the recognition in the general affairs of the world to which their knowledge and training point. So general are the facts upon which such statements are based that they may be accepted as true, and if they are true there must be a reason for that truth.

Various reasons have been given for this state of affairs, but it has seemed to me that they do not go deep enough to get to the root of the matter.

No man who is educated to the point where he deserves to be called an engineer ever quarrels with the truths, or laws, upon which his profession is founded. In dealing with the circle, for instance, he knows that the diameter and the circumference have a fixed relationship to one another even though he cannot express in figures what this relationship is to absolute correctness, and he knows this, whether he uses 3 1/7 to 1 as the ratio of the circumference to the diameter as being accurate enough for the case in hand, or whether he uses figures which come nearer to the truth.

Even in matters in which the knowledge of the underlying laws is still very incomplete, as with wireless electricity, the engineer never doubts the existence of these laws, and his efforts are always directed to finding them and obeying them, for he is sure that only by so doing can he really succeed.

Knowing so much in his own particular part of the world, how can the engineer avoid the conclusion that the remainder of the universe is founded on just as fixed laws? If he does so conclude, why does he not act in harmony with his conclusions? If he is in doubt in the matter, why does he not investigate in a manner to find the truth?

Is there any evidence that engineers are clearer thinkers in every-day affairs outside of their line of engineering than those who are not engineers? If they are not, why should the public give them a large part in its affairs? If they are, why does it not show in their position in the affairs in which we all are interested?

In matters such as taxation, one which affects every individual and every community, for instance; or the prohibition

of the use of intoxicants; or the choice of candidates for public office; or the enforcement of laws in local affairs; or in the number of other things which no one of us can get away from, is the engineer guided by trained reasoning powers which seek out the truth, or is he controlled by his passions, his prejudices and his inherited superstitions, just as are the so-called uneducated?

Unless we, as engineers, can show that our education as engineers does fit us for leadership in these other things, why should the public have any more use for us than it now has?

Of course, it is much more pleasing to think that fault in the matter rests on the public and not on us, but the truth is the thing that will control in this matter, just as it does in engineering matters.

The activities of the members of this Society have gone far beyond our original aims; new boundaries are being thought of and need for a larger vision has been pointed out and a new code for our guidance has been urged. While we are thinking of these things, should we not recognize that all truths are comrades fighting the battles of civilization, whether these truths are religious, political, social or engineering truths, and that all untruth is on the other side, fighting against civilization?

Engineering developed because it sought out, found and accepted things that are the tools of the engineer, and if civilization is to grow and prosper and endure it must rest on a like foundation of truth in all matters that are the tools of civilization.

If the belief that truth of all kinds will finally prevail is not justified, the outlook for the future is surely a dark one. If the belief is justified, then honor belongs to those who find and practice truth, and we as a society and as individuals should always be on the side of truth in all of our human activities.

Engineers have numerous handbooks. Go to any of these that you will, and you find that there is perfect agreement in the fundamental principles. If there is any disagreement it is in regard to the best way to apply these principles, but as to the principles themselves there is no disagreement. If any member of any of these engineering societies were to try to start a movement to have a vote taken to adopt something else instead of these foundation principles, he would be expelled and perhaps shut up in an insane asylum; and certainly a person who did not believe in these principles would not be admitted to membership if his beliefs were known.

Why not have handbooks of civilization in which will appear the fundamental truths against which no agitation will be permitted, either under the guise of free speech or under any other form; and if any will persist in working against these truths, why not put him in an insane asylum or deny him the privilege of membership in the society of civilization?

The universe and every atom contained in it is built upon truths, and these truths cannot be altered by any action on our part, but all real progress must be in line with them. Have we vision enough to see this? Have we the courage to look it in the face? W. O. Platt.

Oil City, Pa.

PUBLIC OWNERSHIP NOTES

F. G. R. Gordon

The little city of Westfield, Mass., has been referred to as a fine example of public ownership success. In 1917 the city of Westfield engaged the services of William Plattner, an engineer, to investigate its electric lighting plant. Mr. Plattner's investigation shows that in 1916 this plant lost $13,471.64. Any place can have cheap service and low rates if the cost of operation is made up by the taxpayers.

OUTING BY THE FITCHBURG GAS & ELECTRIC CLUB AT BIGELOW FARM, LUNENBURG

July 24, 1919

By W. F. Sammet

Hush! a whisper about an Outing is heard around the office. Someone at the Works, who was appointed on the Committee to make preliminary arrangements, told a lady friend this secret. But news of this kind no longer remains a secret when told to a lady. The cat was let out of the bag and the news traveled fast. An Outing was to be held at Bigelow Farm in Lunenburg, where our Manager is spending part of the summer. The Farm, situated almost on the banks

of the Massapoag Pond, proved an ideal spot for a grand and glorious time. We leave it to "Stubby" and "Shorty."

Wednesday, July 23, was the day, but alas, a heavy downpour of rain from early morning until almost noon cast a gloom in the atmosphere and we believe the ladies really tried to swear. The following day was then designated and the sun rose bright and early, and a more ideal day could not have been asked for.

Transportation to the farm was under the management of "Cappy" Gulliver. All the cars that could be spared were used and "Cappy" was there with the Manager's Cadillac for the ladies at the office.

Arriving at the grounds about 10 A. M., the programs of the day were distributed and sports arranged by the Committee, of which H. G. Savageau was Chairman, were started.

A Tug-of-War between the Gas and Electric Departments was won by the latter. Steve Vallee and Barney Basque were Captains. Some one said Steve was partly overcome by "gas" and therefore the Gas Team lost.

The Potato Race for the ladies was next in order and was won by Miss Alice Atwood. The ladies were warned not to step on the spuds, which Mr. Neal considered a very precious article.

The Three Legged Race for the men started great excitement. The prize was awarded to Omohundro and Pepin. Evidently it takes "Pep" to win this event.

Following this, the program called for a Meter Reading Contest and Ulysse Forest was declared the winner. Dick

Condon says he would have won but he broke the lead of his pencil.

The Nail Driving Contest for the ladies was won by Miss Crooker. She sure did swing the hammer and most of the time hit the nails on the head.

A 100-Yard Dash for the men followed and Bill Durling proved to be fleet on his feet.

The program next called for a 50-Yard Dash for the ladies and the men all gathered along the race track. MacDonald picked Miss Stebbins to be the winner and all bets were turned over to Mac. "Stubby" sure did skim along.

A 50-Yard Dash for Fat Men, although not called for on the program, was full of excitement. Billy Vandell was awarded the prize. Mr. Hayes was a close second.

Kenney, the Caterer, having arrived, and preparations made, the whole tribe sat down for a fine turkey dinner. Tables and chairs were set out on the lawn

under the trees for the occasion. Eddie Ryan started singing through a megaphone and Sammet was strong on the tenor. The girls were surprised and said Sammet left his dignity at the office and Bill said that was the place to leave it.

After everyone had eaten and drank—ginger ale—until they could hardly move, a rest period was declared, but no one rested so the program was continued.

The 25-Yard Sack Race was a cinch for long-legged Omohundro.

Following this there was a Dressmaking Contest for the ladies. The ladies were to dress up a potato with colored crepe paper, and Misses Cram and Crooker were declared the winners.

Then came the great Ball Game between the Married Men, captained by Bill Sammet, and Single Men, captained by Leon Belliveau. With only one more inning to play, the score stood 5 to 0 in favor of the Single Men. Then, with two on bases, Eddie Ryan stepped to the bat and, to the surprise of all, including himself, he hit the ball for two bases, scoring two runs, and "then the fun began." The Married Men decided to call it off after they made eight runs.

After this, everyone went "in to swim" and the scheduled 200-Yard Relay Race was won by the Electric Department,

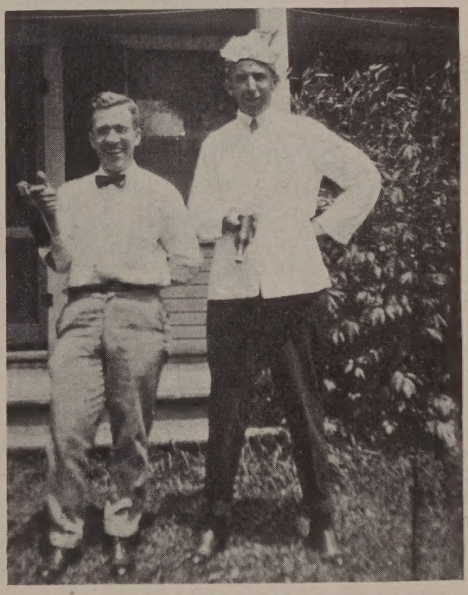
"Mo" Holden, Captain. The Obstacle Race following was won by Henry Lahti.

After all had swallowed all the water they desired, taps were sounded and all returned to the house.

Messrs. Smith and Cary were our guests and Mr. Smith, we noticed, had disappeared during the afternoon. Photos which were shown around told us the story.

About 6 P. M. almost all returned to the city. Some took the longest road home. The following replies were received from the employees when asked if they had a good time: "I'll say so." "I'll tell the world." "You said it." "I sure did." "Nuff Ced." "Ugh, Pgh." "If you didn't it was your own fault."

Let's have another.



PUBLIC OWNERSHIP NOTES

F. G. R. Gordon

Winnipeg is advertised all over the world for its low rate of 3 cents per kilowatt-hour for electric current. There are several things to take into consideration about this plant. In the first place it pays no taxes. It has a magnificent water-power plant on the Winnipeg river almost in the wilderness, where there are no excessive costs such as taxes, etc., to figure. Lastly, the manager of this plant, Mr. Glassco, says that the operating charges at present are some $2,300,000 a year, but he shows that if the plant had to depend upon steam power the operating expenses would amount to $17,000,000 a year, or about seven times the present cost for operation. In other words, after taking into consideration all the facts, we find that if this plant were operated by steam the charge for electric service would be three or four times its present price.

KEEPING WELL IN HOT WEATHER

From the Life Extension Institute

One denizen of the tropics, from whom we can learn how to live in hot weather, is the monkey. He certainly leads an active existence, but you don't find him taking any chances with the heat rays. A monkey will die within seventy or eighty minutes if exposed continously to the direct rays of the tropic sun, although he withstands successfully the heat and humidity of the tropic forest.

Exposure of the head to intense sunlight is more likely to cause loss of hair than to stimulate its growth. It has also been observed that prolonged exposure to direct sunlight often causes nervous instability, eye-strain, and circulatory disturbances. It is not wise to lie around on the sea beach, with head unprotected, exposed for hours to the glare of midsummer sun, sea, and sand, accumulating a coat of tan which is, in itself, no necessary indication of health.

Nothing is more refreshing than a sea bath, if not unduly prolonged. Carried to excess it may be very depressing. Fresh water bathing is also much overdone. The temptation to stay in the water is great, but fifteen minutes for fresh water and one-half hour for salt is a wise limitation; if the water is very cold, shorter periods are wiser.

In business offices the menace to health in hot weather arises not from exposure to the sun but from humidity in the atmosphere and, where the ventilation is not good, from stagnant air. Mere heat is well borne if the humidity is not excessive. The remedy is to keep the air moving over the surface of the body, either by proper window ventilation or by electric fans. Over-eating is always a dangerous practice for the sedentary worker, but in hot weather it is particularly hazardous.

The best thirst quencher is cool water with a little lemon juice added, taken at rather frequent intervals betwen meals, but not in large quantities that may overload the stomach and embarrass the heart and lungs when heat and humidity are already oppressing them.

A good night's sleep is the best preparation for a hot day. The individual with a well-poised nervous system is the one who goes about his business ignoring the fluctuations in temperature. If you keep the air moving around you at night, the effects of heat and humidity will be largely neutralized. If it is impossible to command mountain or sea breezes, an electric fan will do almost as well and repay its cost more fully than many more expensive measures that are taken to escape the heat. A neutral or tepid bath on retiring is also a very valuable restorative and sleep-producer.

SOLDER RECOVERY

By J. F. Morey

The following article on solder recovery is one which should be of interest to anyone connected with the meter repair department of a gas company.

At the Malden & Melrose Gas Light Company we have established a practice of saving all floor sweepings from around the work benches in the meter repair shop in which we find small pieces of scrap solder that fall from the bench, when the workman is opening up his meters.

We keep a galvanized iron dirt barrel in the shop, and these sweepings are deposited in this barrel. When a sufficient quantity is obtained we separate the solder from the dirt, by means of a large melting pot.

Another source of solder recovery is from the dross in the dip pots. These

pots are used by the workmen to dip the hot coppers in to clean all dirt from the face, and in doing so some solder which clings to the copper is released and drops into the pot. This dirt from the copper settles in the bottom of the pots, and has to be cleaned out quite frequently. This we save in a wooden keg because the acid from the dip will eat an iron barrel. We find by melting this over in the same way as the sweepings that a considerable amount of solder can be recovered, although no solder can be detected in the dirt as it comes from the pots.

To prove that it pays to save this dross and the sweepings, we give the results of our last clean up.

Floor sweepings which filled a large dirt barrel, after being melted were found to contain about 380 lbs. of solder, and about 150 lbs. of dross, contained 68 lbs. of solder. This was accumulating for about a year and a half. To melt this solder it required two wheel barrows of coke and one man's time for one and one-half days.

The solder in this state, would not prove satisfactory for meter use, so we used about 20 lbs. of tin for the dirt sweepings, which brought the amount up to 400 barrels, and 10 lbs. of tin for the dross, which brought that up to 18 lbs. We now have 478 lbs. of solder from these two sources, which is equal to any which can be purchased.

Solder at the present market price will cost 32 cents per lb., which would place a value on our recovery at $152.96.

From this amount we have to deduct cost of labor, cost of coke, and cost of tin. This leaves us with a substantial return for our work.

To one not familiar with this practice, it would not appear worth while as very little solder can be seen with the dirt. In most repair shops, this is swept up and thrown away as worthless.

We find it just as easy to save these as it is to throw them away, and the results we obtain justify our practice.

From the *Journal of Electricity*

In the pocket of a dead American boy was found the following pledge. It was a creed to die by—in these times of peace it is a creed to live:

To base my expectations of reward on a solid foundation of service rendered; to be willing to pay the price of success in honest effort. To look upon my work as an opportunity to be seized with joy and made the most of, and not as a painful drudgery to be reluctantly endured.

To remember that success lies within myself, in my own brain, my own ambition, my own courage and determination. To expect difficulties, and to force my way through them; to turn hard experience into capital for future struggles.

To believe in my proposition, heart and soul; to carry an air of optimism in the presence of those I meet; to dispel ill temper with cheerfulness, kill doubts with a strong conviction, and reduce active friction with agreeable personality.

To make a study of my business, to know my profession in every detail, to mix brains with my efforts, and to use system and method in my work. To find time to do every needful thing by never letting time find me doing nothing. To hoard days as a miser hoards dollars; to make every hour bring dividends, increased knowledge or healthful recreation.

To keep my future unmortgaged with debts; to save as well as earn. To cut out expensive amusements until I can afford them. To steer clear of dissipation and guard my health of body and peace of mind as a most precious stock in trade.

Finally, to take a good grip on the joys of life; to play the game like a man; to fight against nothing so hard as my own weakness, and to grow in strength, a gentleman, a Christian.

"So I may be courteous to men, faithful to friends, true to my God, a fragrance in the path I trod."

RECONSTRUCTION WORK AT THE HAVERHILL ELECTRIC COMPANY PLANT

By Lewis A. Day, Resident Engineer, Charles H. Tenney & Company.

The construction work at the plant of the Haverhill Electric Company has gone along rapidly during the past month. Much work has been finished, but the main features of the work has been the completion of the mason work on the new 625 H. P. Bigelow & Hornsby boiler by the Alfred Cast Company men and the setting of the new 5000 K. W. Westinghouse turbine and condenser. The electrical part of which our Mr. Hicks and Mr. Eaton are looking after with the assistance of our Mr. Bicknell.

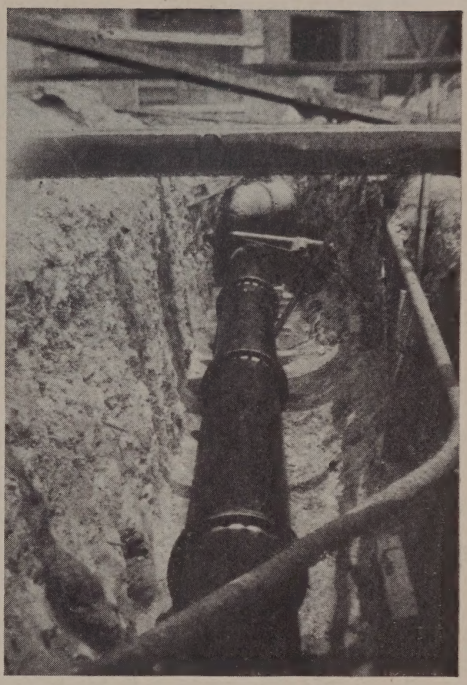
Excavating and Filling with Crane

The 750 K. V. A. turbine recently installed is in operation and is carrying her load in good shape. The rest of the work at the plant including the steel floors, stairs and walks, concrete floors, mason work, piping, etc., are nearly completed so callers at the plant would hardly know this place as the results of long months of hard work now show up, causing the Chief Engineer, Mr. W. F. O'Regan, to wear a smile. He has driven us out of the yard by piling it so full of coal we can't get in any of the back doors, but as his office is at the front entrance of the plant, we are quite sure of the place being still open to us and the glad hand extended for a while yet.

Lowering 24" Pipe into Well

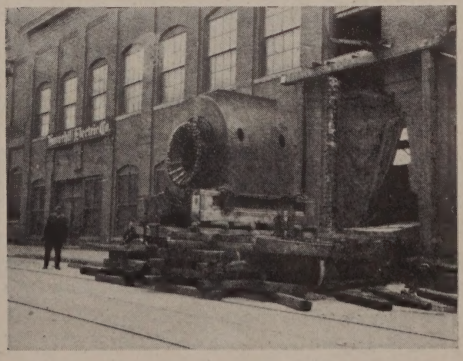
The writer will in the future hold a warm place in his heart for the men connected with the Haverhill Electric Company. The work here has been very difficult to handle at times on account of the many changes involved and the continuous service required in operating a power plant. Notwithstanding this, our work here has gone along in good shape, although it at times has seemed as if our progress was slow.

As Resident Engineers representing our company in the field the same foresight and judgment in planning and carrying out our work should be used that would be called for if we were called upon to show a profit on any contract work; when this method is carried out the objection that many have to cost plus a percentage (which is to the writer's mind the only fair way to do business in these times when prices of both labor and material change over night) will have been overcome and a mutual good feeling will exist between contracting parties, no matter how difficult the undertaking.

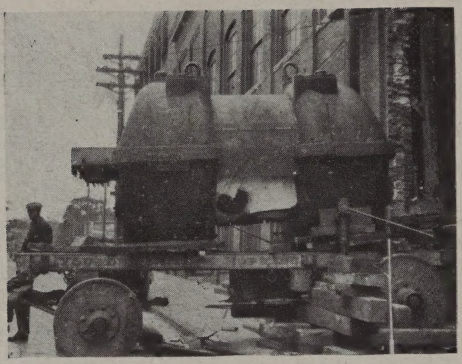


Line of 24" Pipe to Condenser

Moving Concrete Mixer to New Location



Part of New 5000 K. W. Turbine Electrical End



STEAM END OF NEW 5000 K. W. UNIT

We have only had one call this month from our Mr. A. J. Harty, who we hope to see a little oftener after the vacation season is over.

We were glad to have a call from our Asisstant Manager, Mr. Macomber, and look for pleasant relations in the future.

A few pictures may be of interest to our readers and show our method of handling our excavating, pipe laying and moving concrete mixer from one location to another.

MONTPELIER & BARRE LIGHT & POWER CO. FIELD DAY

MARY E. DRUMGOULD, Correspondent

On July 17th, at Intercity Park, the third Field Day in Vermont was held. This is the first event of this kind held since the beginning of the war, and was looked forward to with a great deal of interest by all employees.

The doings started at 2 P. M. with a baseball game at Intercity Park between teams from Lighting Company and the Traction Company. Robert M. Eagan, District Manager at Waterbury, captained the Lighting Company team, and E. A. Harris, Office Manager at Montpelier, captained the Traction Company team. Both teams were made up of men experienced in the art of ball playing, and after a couple of hours of stealing bases, home runs, etc., the score was announced as 14 to 9 in favor of the Lighting Company team. In order to keep peace in the Tenney Service family, a variety of umpires were drafted for the game, being Messrs. Harry McIntosh, C. J. Cookson, F. E. Gleason, H. D. Larrabee.

After the ball game came the big events of the day, viz.: Ladies' races, ball-throwing contest, etc. The events and the winners are as follows:—

Ball-throwing contest—Mrs. C. L. DeForge, Mrs. Norris.

Hoop race—Miss Esther Niles, Miss Catherine McLeod.

50-yard dash—Miss Ruth Anderton, Miss Flora Maroni.

The above gives a list of the first and second prizes, respectively; there were also booby prizes for each event, but inasmuch as the announcement of them would include the name of the correspondent, we will omit mentioning them.

The men's opportunity to display their talent brought out the following results:—

Tug of war between Plant Men and Line Gang resulted in the Line Men defeating their opponents. They couldn't help but win when "Myron" was at the end of the rope.

Fat men's race—Myron Hill, E. A. Harris.

Shot put—Harry Colombo.

100-yard dash—J. C. Cadette, E. A. Harris.

Obstacle race—Chas. E. Sunderland.

The men also came in for their share of the booby prizes, but we hesitate to name the "winners" of them, inasmuch as some of the Executive Officers took part in the sports.

After the field events had taken place everyone adjourned to Dewey

Park, where a sumptuous Clam Bake was held. A very fine menu, consisting of clams, lobsters, and all the "fixins", was arranged by Mr. Cookson, and to him is due a large amount of credit for the fine "feed."

After the bake, the awarding of prizes took place, Mr. Larrabee keeping the crowd in laughter with his witty words while presenting each prize. After Mr. Larrabee had given out the prizes he called on Mr. Sands for a few words—not knowing that most of the words would be about himself.

After a few touching references to the departure of Mr. Larrabee for his new position in Norwich, Connecticut, Mr. Sands presented him with an automobile lunch kit from the employees of the Lighting Company and a smoking set from the employees of the Traction Co. Although very much surprised, Mr. Larrabee thanked those who had so kindly remembered him.

Mr. C. J. Cookson, the Manager-elect, was then called upon for a few words, and was followed by Attorney F. E. Gleason with a very witty address on the Care and Feeding of Poultry. Mr. Gleason's remarks brought forth much laughter and applause from the audience favored with this unusual subject.

Dancing was the next event and proved to be popular with the young folks present. The music was furnished by Gilbertson's Orchestra, who also played during the supper.

The affair ended at 11.30, and it was the opinion of everyone present that this was the most successful Field Day ever held in Vermont. Everyone joined in and had a good time, the only thing that clouded the day's pleasure was the knowledge that this was the last Field Day Mr. Larrabee would be with us, and I think everyone tried to make it a success.

PUBLIC OWNERSHIP NOTES

F. L. R. Gordon

Facts show that the costs of municipal electric lighting in the socialistic plants of Europe are 80 per cent higher than in this country under private ownership. What is meant by this is the fact that wages in Europe average only one-half those of this country; therefore, if electric current costs 10 cents per kilowatt-hour in Frankfort, Germany, or Liverpool, England, that price is no cheaper than 20 cents per kilowatt-hour would be in this country. The same thing is true of gas. For instance, in Manchester, England, the price of gas in 1914, before the war had any influence, was 64 cents per 1,000 cubic feet, which would be equal to $1.28 in any of our large cities. Manchester, by the way, has cheap coal, cheap water and rail rates and cheap labor; and the ability of the people to buy things is 50 per cent less than in this country, but, under municipal ownership of the gas business, Manchester charges 44 per cent higher rates than private-owned plants charge, on the average. And Manchester is no exception to the general condition under public ownership all over Europe. The world is always overgoverned, and now more especially in its business affairs. The dismal and ghastly experience of Russia shows that business is best left to the free effort and interplay of thought and experience of those who know and are free from political ideas in control of their activities.

The city of Wheeling, W. Va., has lost more than $1,000,000 on its municipal gas plant. It has closed down that plant now and the total loss may reach an additional $500,000.

COMPLETE REPORTS

The following is a list of the Companies in the order in which their reports were received for June, 1919.

Company	Date Received at Boston Office	Order of Receipt at Boston Office	Date of Completion
Hampstead & Radnor Properties	July 8, 1919	First	July 8, 1919
Montpelier & Barre Lt. & Pr. Co.	" 12, "	Second	" 11, "
Barre & Montpelier Tr. & Pr. Co.	" 14, "	Third	" 12, "
Laconia Gas & Electric Company	" 14, "	Third	" 12, "
Boston Electrolytic Oxygen Co.	" 15, "	Fourth	" 14, "
Milford & Uxbridge St. Ry. Co.	" 15, "	Fourth	" 14, "
Malden Electric Company	" 16, "	Fifth	" 15, "
Rockland Light & Power Company	" 16, "	Fifth	" 15, "
Peoples Gas & Electric Company	" 17, "	Sixth	" 16, "
Exeter, Hampton & Amesbury St. Ry.	" 18, "	Seventh	" 17, "
Exeter & Hampton Electric Co.	" 18, "	Seventh	" 17, "
Concord Electric Company	" 18, "	Seventh	" 17, "
Haverhill Electric Company	" 19, "	Eighth	" 18, "
Salem Electric Lighting Company	" 19, "	Eighth	" 18, "
Keene Gas & Electric Company	" 21, "	Ninth	" 19, "
American Tar Company	" 21, "	Tenth	" 19, "
Malden & Melrose Gas Light Co.	" 22, "	Eleventh	" 21, "
Eastern Massachusetts Electric Co.	" 22, "	Twelfth	" 22, "
The Bristol & Plainville Tram. Co.	" 23, "	Thirteenth	" 22, "
Fitchburg Gas & Elec. Lt. Co.	" 23, "	Thirteenth	" 22, "
Portland Gas Light Company	" 24, "	Fourteenth	" 23, "
Springfield Gas Light Company	" 25, "	Fifteenth	" 24, "
Teneco Sales Corporation	" 25, "	Fifteenth	" 24, "
Suburban Gas & Electric Company	" 26, "	Sixteenth	" 26, "
Charles H. Tenney & Company	" 30, "	Seventeenth	" 30, "

MR. BENJAMIN MURRAY

It will be pleasing to the friends of Benjamin Murray, who was familiarly known at the Suburban Gas & Electric Co., as also at the Fitchburg Gas & Electric Co., as 'Ben," of his most recent exploits. "Ben," since he left us, got appointed as a patrolman in Nashua, N. H. and has been playing "Hero" since July 5th from reports and cuts taken from the Nashua paper. The article reads as follows:—

"Heroic work by Patrolman Benjamin Murray, who rescued one woman and a little girl from the burning building at 164 West Pearl St., is the feature of a fire which caused an alarm from box 74 at 1:20 this morning. The fire was confined to the cellar of the building, but suffocating billows of black smoke rendered the whole building uninhabitable, and but for the officer's bravery in penetrating through the smoke in the main hallway two lives would undoubtedly have paid the penalty. He went in through the main entrance and found the woman and girl behind an almost impenetrable smoke screen, utterly dazed and without a sense of direction. Seizing the child in his arms and piloting the woman hurriedly down the stairway, the banister by which he was guiding himself broke, and he and his burden fell the length of the staircase, but he finally safely brought his charges to the street, with slight injuries to himself."

Good luck "Ben," and keep smiling.

MONTPELIER & BARRE LIGHT & POWER CO.

On August 1, Mr. H. D. Larrabee, who has been Manager of the Montpelier & Barre Company since its organization, left us to assume the position of General Manager of the Eastern Connecticut Power Company at Norwich, Conn.

Mr. C. J. Cookson has been elected Manager to succeed Mr. Larrabee. Mr. Cookson has been with the Tenney companies since 1907, when he entered the employ of the Malden Electric Company in the Meter Department. He was subsequently transferred to the Meter Department at Revere, and later became Superintendent of the Suburban Gas & Electric Company. About three years ago he was transferred to Montpelier as Superintendent of the Montpelier & Barre Light & Power Company, which position he has filled ever since.

Mr. Cookson's long experience with our companies makes him splendidly fitted to qualify in his new position.

Mr. Frank M. Eastman has been appointed Superintendent to succeed Mr. Cookson. Mr. Eastman was Chief Engineer of the Corry' Deavitt & Frost Electric Company, and since the acquisition of that company by the Montpelier & Barre Light & Power Company has acted as assistant to Mr. L. A. Laurence, Chief Engineer.

Mr. Eastman is a man of excellent jugdment; understands handling of men, and knows how to push construction work. Mr. Cookson will find in him a very able assistant.

The Tenney Times

Edited by Lawrence L. Carr.

From *N. Y. Morning Telegraph*

HE fought his way through Northern France, and then he crossed the Rhine, he was a hero every inch, deserving corn and wine. He stayed across a long, long time to make the world a place quite fit to entertain us all, the well-known human race. We cheered at home so loudly of the doughboy and his gun, that he himself was satisfied to stalk the sullen Hun. He felt assured that after all when he came marching back, prosperity in all its forms would dog his every track. And finally he disembarked, his friends gave cheer on cheer, they treated him to sandwiches, and everything that's dear. And then they faded from his view and went their several ways, and left the doughboy standing in something of a haze. And now the doughboy walks the streets and mutters with a sob, "I wish they'd can this hero stuff and give a chap a job."

Tenney Topics

Mr. Simpson of the accounting department must have walked all over Cambridge during the recent "El" strike. He finally reached the office about noon.

Following the announcement of the marriage of Mr. Bond in July comes the announcement of Mr. W. F. Shea's marriage on August 27th to Miss Anna Sweeney of the Massachusetts Bonding and Insurance Company. Mr. Shea is our civil engineer. We wish him the very best luck.

Mr. H. M. Tenney is soon to go on the road as a bond salesman. Good luck to you. It's a great life if you don't weaken.

Mr. R. C. Tenney is leading a vigorous sales campaign for the Teneco Sales Corp., in the interest of Kilgour Lubricators.

It's terrible how these free cities demand the street railways to tear up the rails and get out of the cities on account of raising the fares from five cents to six. Why, anyone can see that with the increase of foodstuffs, etc., it can't be helped. This happened in Toledo.

Mr. Barwise returned from his honeymoon a few weeks ago in the best of spirits.

Miss Gannett's latest hit is entitled "I'm Forever Chasing Flies." They bother her considerably.

Miss Ethel Sawyer is now assisting in the Purchasing Department.

Mr. Edward S. Carleton has returned to work in the Purchasing Department, after being away from his desk three weeks owing to aseptic poisoning.

The complete tieup of the "El" caused the commuters quite an inconvenience. Mr. Prothero of the Mailing Department had to ride in a coal tender.

WATCH THIS COLUMN GROW —The Editor.

The Mailing Department wishes to state that if all mail boxes in the executive offices could be kept clear of books and papers that are not to be collected it would be a great benefit to all.

News from Exeter, N. H.: The passengers still have to wait for the motorman to eat his lunch.

News from Salem: Two U. S. Subs recently made a brief visit to this city. They were the N-4 and N-6.

A campaign to boost the "Willows" should be brought into effect, for there is a good place that is fast losing its popularity.

SEE Mr. Sargent's Curio Collection. FREE.

Mrs. Buffum, our celebrated librarian, is learning to drive a Mercer Racer.

Miss Mabel B. Whittier is spending her vacation at Biddeford Pines. Mabel writes us that the bathing is fine.

The girl with the coat of tan, "Miss Grace Farquahar."

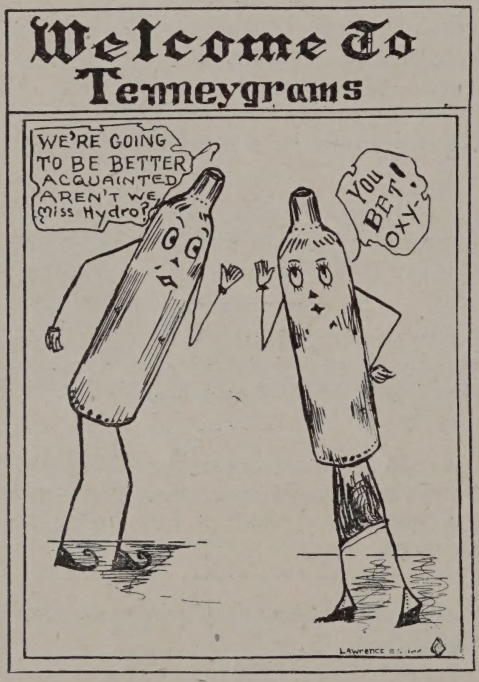
More notes in the next issue.

TENNEYGRAMS

BOSTON ELECTROLYTIC OXYGEN COMPANY

F. B. Mehaffey, Correspondent

Miss Sargent and Miss Margeson are enjoying a month's stay at Winthrop Beach.



Mr. Mehaffey recently took a trip through the Berkshire Hills to North Adams and Pittsfield, thence through Vermont and New Hampshire to Lake Winnepesaukee, and reports a very enjoyable time.

CONCORD ELECTRIC CO.

H. C. Crossman, Correspondent

We got all polished up for inspection recently upon hearing that Gen. Bliss was in town, and were greatly disappointed to find out that the inspector was on a pleasure trip and not recording our blemishes.

Major Macomber came to Concord in July in connection with the proposed transmission line from Sewalls Falls to Penacook.

Wm. Mitchell of the line force spent his vacation at his boyhood home in New Brunswick.

In the early morning parade, known as the "horribles," held July 4th as part of the Welcome Home Celebration, the employees of this company took an active part. Levi Laroe's Bingville patrol wagon and Harry Danforth's "Hick Band" were fine laugh producers.

Miss Josephine Mercer is passing her vacation at Hampton Beach.

EXETER & HAMPTON ELECTRIC CO.

Myrtle Brewster, Correspondent

On the 26th of June, Exeter welcomed home her returned soldiers by giving them a celebration which consisted of a fine parade through the main streets of the town. This parade was arranged by a committee of five, which was appointed by the town. Our manager, Mr. Baxter,

"In Memoriam"

was secretary of the committee, which deserves a great deal of praise.

The parade disbanded on the High School playgrounds, where the soldiers enjoyed a clam-bake "with all the fixings." After their feed, they had a ball game and were later entertained by an open-air vaudeville.

The Exeter & Hampton Electric Co. was well represented in the parade, the following members of our little band "doing their bit":

Storekeeper Thurston marched with the Red Men.

Lineman Hidden marched with the firemen.

Lineman Lewis and Meter Reader, we are proud to say, marched with the soldiers.

"Tyte" marched with the Knights of Pythias. And Bill was fortunate in getting a ride through it all, he being chauffeur for some of the ladies. (Leave it to Bill!)

The rest of us stood with the crowd and were strong on the cheering. In the evening a dance was given in the Town Hall, also speaking by Governor Bartlett of New Hampshire and others, which was followed by band concerts.

It looks as though the Exeter Office has been getting a big black mark for the last two issues of the Tenney Magazine, but we can honestly admit that rush of work has been the cause, and the weeks rolled by before we realized it was too late to contribute our bit.

Since our last writing quite a few interesting things have happened.

Everything is "booming" at Hampton Beach this season, and especially so since we opened our new office on the Boulevard. The display window attracts a great deal of attention and is gradually convincing the public the advantages of electricity. Many appliances have been sold this season and the customers are doing their best to keep "Tyte" out of mischief.

No doubt the christening of this new office, which consisted of a fine lobster dinner given by Mr. Baxter, is the reason for all the returns.

Miss Alice Walker of Lowell is office clerk for the season.

Mr. Blaisdell, our office manager, returned to work July 1st, having been on a two weeks' vacation, touring different parts of the country.

If you wish to "start anything" around this office, just ask "Our Bill" if he would help in delivering bills and collecting at Hampton Beach. Nuf sed!

Leonard M. Philbrick has entered our employ as Meter Reader, our former Reader, Lewis, having joined the linemen. Leonard is being initiated into the ways of the office. At present he is interested in the Electrical Demonstrations (!) which have taken place at this office in the past and is making many inquiries about same.

Henry Ford has nothing on the Exeter & Hampton Electric Co. for obtaining customers when our linemen get started. A good proof of this statement would be to get a glimpse of our Meter Room.

We have installed all the meters within our reach and are looking for more.

Long live Hampton Beach!!!

Even Manager Ball of the Haverhill Electric Co. could not resist the sad sea waves, so hired a cottage at North Beach and gave us the privilege of entering his name on our books.

We have been fortunate this year in renting our vacant office to a real estate and insurance company, which took up occupancy the first of this month. The new tenants have a fine looking office and seem to be well pleased.

So are we when the rent comes due!

Mr. Scott, suprintendent of the Exeter, Hampton & Amesbury Street Railway, is on the sick list, but we are hoping for a speedy recovery.

If any of the Tenney readers are fortunate or possibly unfortunate in owning a 1919 "Flivver," and by chance have any trouble in operating the same, no doubt Supt. Edgerly could give them expert advice on the upkeep and his idea of the machine.

Should any of the Tenney readers know of a good nerve tonic, send along the good word to Miss Brewster, as she frequently receives severe shocks to her nervous system.

FITCHBURG GAS & ELECTRIC LIGHT COMPANY

W. F. Sammet, Correspondent

Miss Elsie Winder, assistant teller, returned from a two weeks' vacation spent at Revere Beach.

Lloyd Marshall, after serving about two years in the army, returned to his former position as appliance clerk.

Miss Margaret Grant, P. P. meter clerk, returned after "resting" for two weeks.

Winslow K. Phillips, formerly works stenographer, surprised us with a visit after two years' service in the army. We expect Winslow with us again soon.

Details of the grand outing which we had at the Bigelow farm in Lunenburg appear elsewhere in this issue.

HAVERHILL ELECTRIC CO.

William F. O'Regan, Correspondent

John Calhane is now spending his spare time paddling a canoe around Canobie Lake. Who is the girl, Jack?

At this writing Jim Frank is away up in the wilds of New Hampshire with his family, getting a much needed rest.

Miss Whitely of the office force has returned from her vacation at Idlewood Lake. She says she had a very pleasant time and reports a great plenty of the male gender there. We bet Helen had some time.

Anybody interested in the fine art of flounder fishing should consult Messrs. Montieth, Thurlow, Beal and Trull of the plant force. Five flounders to be divided among four healthy men must be tough after spending the afternoon in a cranky dory with the rain coming down in buckets. You want to hear the alibis.

There is something that looks like a mystery attached to Miss Bedell's vacation. She has in the past been a regular visitor at Lake Sunapee. This year she claims she stayed home. We are all wondering why.

William Gleed of the office force attempted to stop a Ford car with the small of his back a few weeks ago and came out of the encounter somewhat worse than the Ford did. After a week and a half in bed Bill has come to the conclusion that he won't try it again in a hurry.

J. L. D'Aust, appliance manager, is spending two weeks and considerable money as well as a lot of time in the water at the North End, Salisbury Beach.

All the linemen went on a blueberry picnic recently and what we would like to know is why they didn't bring back more berries.

Henry Averill, Line Foreman, and Sherm Sharples, foreman of the Meter Dept., went to Boston recently and both came home with stiff necks. The Ames Building must have made quite an impression on them.

INTRODUCING OUR EMPLOYEES

Coing into the employ of this company on the 28th day of February, 1902, R. G. Thurlow is another one of the old-timers that have grown along with the company. During the years between 1902 and 1910 Mr. Thurlow, better known as "Bob," acted as lamp trimmer and trouble man, and we youngsters still hear echoes of the dim distant past when Bob starts to relate his experiences on the old Brush Arc machines and on the old arc lights. On August 12 ,1910, Bob took up switchboard operating in the station and has seen many changes in switchboard equipment since that time up to the present.

The snapshot below shows Mr. Thurlow in a moment of leisure on his farm. Oh, yes, he is a farmer also and somewhat of a chicken fancier, too. By the way, now I don't want the reader to misunderstand that last remark. Bob's hens are always laying and in that way he has the jump on some of the other poultry men at the plant. But now for the real secret of what Bob likes to do outside of soldering up leaks in the neighbor's hot water tanks and various other utensils solder can be applied to, he likes to go

down to Plum Island at the mouth of the Merrimack River and fish. To hear him tell it you would think that all he had

R. G. Thurlow

to do was drop a line overboard and the fish just jumped for his hook. But a short time ago we understand he went fishing with others at the plant and they sat in a boat all afternoon in the rain and Bob didn't even catch the proverbial rubber boot. Of course, you understand a fish story must always be taken with a grain of salt.

We trust that Bob will be with us as many years more as he has put behind him. A faithful employee, and as steady as a clock, he stands on a par with all our other "Old Timers."

MALDEN ELECTRIC COMPANY

H. J. Walton, Correspondent

Miss E. Maude Nicolls shyly approached our office manager, not long ago, to ask if she might take her vacation earlier than she had planned, as she wanted to visit friends in New York and be in Hoboken on the day that her "Charlie" received his commission as Ensign. Of course, our office manager granted this privilege and of course every one in the office was green enough to suppose that it would be just a visit. Imagine our surprise at the end of the week to be invited to the bride's home to attend an informal reception. However, the artistic members of the office, knowing that "Mrs. Davis" would not desert us, planned to decorate her desk. Making a covering of pale pink and white crepe paper, the desk appeared like a young wedding display. In the centre was a Kewpie Doll about one foot tall, dressed in bridal costume, even to the wreath of orange blossoms. Tastily displayed around the "table" were such useful presents as a rolling pin, rattle, bootees, washboard and others too numerous to mention. A huge bell hung from the ceiling made of white paper and at a given signal was opened and a shower of real rose petals fell on the bride. To add to her reception every man in the office embraced her and it is not necessary to inform our readers that most of the other girls are planning immediate weddings. Mrs. Davis got safely through with all this demonstration and thanked us for letting her off so easy. Not dreaming that there was still some pep left in the gang, she attempted to walk home from the office that night, just as quietly as other nights, but the "gang" was there, loaded with confetti, and "Mrs. Davis" tasted a real celebration, but smiled through it all and thanked us just the same. About two weeks later a special meeting of all office employees was called and presented her with a beautiful colonial mirror. Our best wishes are extended for a long and happy married life.

Mr. H. J. Walton is busy these days telling the farmers in Hillsboro, N. H., how to cut and store hay by the use of electric motors.

Cards come in each day from the various members of our organization who are on vacation and all report having a good rest and a good time.

MALDEN & MELROSE GAS

Mrs. A. S. White, Correspondent

A meeting of the Club was held in Marie Hall, Pratt Building, Friday evenning, July 18th. A beautiful banquet was served by H. R. Grant of Everett, which every one enjoyed immensely.

Committees were chosen to plan for a Field Day, to be held in the near future, and Mr. W. B. Gibby was voted the Chairman.

Music was furnished by an orchestra and dancing was enjoyed and everyone went home happy, after having spent a most enjoyable evening.

Mr. Thomas O'Hare has finished the compilation of Records relative to a complete system of Standard Practices, for the Tenney Service Employees, and is now helping out in the Gas Cage.

Our Miss Fenerty left our employ on June 21st and was pleasantly surprised by being presented with a complete set of table silver, knives, forks, spoons, etc., of the rich Patrician pattern. Miss Fenerty made a fitting response and was very much pleased. A week from that day a number of the Office Force attended the wedding which took place in the St. John's Episcopal Church at Winthrop. The bride looked unusually charming in her gown of ivory satin. She wore a wreath of orange blossoms and carried a large shower bouquet of bride roses and sweet peas. At the close of the ceremony the wedding party held an informal reception in the vestibule of the church. As a parting gift to her friends, the bride tossed a flower to each one. Many of the guests were prepared with a large supply of confetti and allowed her to know it. The happy couple left for a bridal tour and expect to reside in the West for at least a year.

Miss Doris Bangs of the Information Department is spending her vacation at Oak Bluffs, Massachusetts, and New York City.

Miss W. Tyler, bookkeeper on regular meter work, is now spending her two weeks at Holiness, New Hampshire.

Miss Alice McPhee has returned from her vacation, and reports a very good time, with only one objection—it did not last long enough.

Miss Goodwin, who was employed for a short period last summer, is with us again temporarily.

Mr. Thomas Dickson has been ill for several weeks. Although much improved, he is still unable to return for office duties.

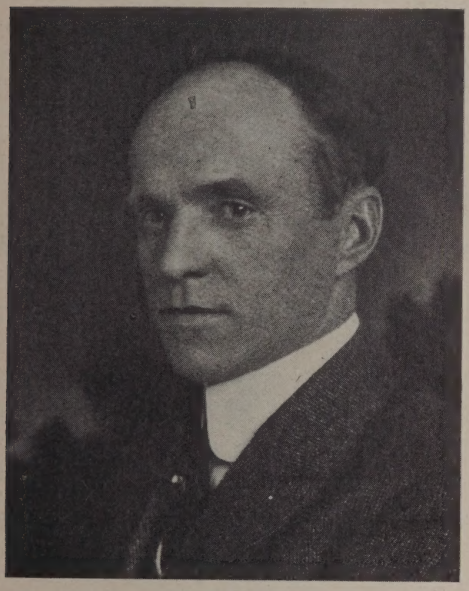
MONTPELIER & BARRE LIGHT & POWER CO.

On August 1st, Mr. Harold D. Larrabee completed his duties as Manager of the Lighting and Traction Companies at Montpelier after a very successful period of nine years.

The announcement of Mr. Larrabee's departure came as a shock to the employees of both Companies, as he was a great favorite with them all. Always ready to help with his good advice or with money when anyone was in trouble, Mr. Larrabee has endeared himself to the hearts of everyone of us and his kind word or joking remark will be sadly missed.

Mr. Larrabee goes to Norwich, Connecticut, to assume the Managership of the Eastern Connecticut Power Company and the Shore Line Railway Co., a position much larger than the one in Montpelier, but for which he is ably fitted. In his new field he will have several hundred employees whom we

feel sure will give him the same loyal support and respect which was accorded him in Montpelier.



Mr. Harold D. Larrabee

Mrs. Larrabee will also be greatly missed, as she was a woman who always took a keen interest in everyone and everything connected with her husband's work—many times inconveniencing herself to give a helping hand, and we feel sure she leaves in Montpelier many friends whose kind thoughts and best wishes go with her to Connecticut.

It is hardly necessary to say that we wish for Mr. Larrabee the greatest success in his new field, and for both he and Mrs. Larrabee many years of happiness in their new home.

Miss Hazel Ryle has also returned from a two weeks' vacation, spent at Queen City Park, Burlington, and Orwell, and judging from remarks, Hazel enjoyed the whole two weeks.

Cards have been received from Miss Bertha S. Lindsay, formerly Invoice Clerk and Telephone Operator, who is now in New Hampshire. Miss Lindsay is gaining in health and expects to be with us again.

Miss Bernice Pembroke has returned from a two weeks' vacation spent at Old Orchard, and reports a wonderful time.

Mr. L. B. Provost, Chief Clerk at the time of his enlistment in the Engineers' Corps, has returned from several months in France. Mr. Provost, like all the boys, is glad to get home once more; he has resumed his old position with our Company.

Miss Isabel Frost, Office "Boy," has returned from a week's vacation.

Miss Niles, Ledger Clerk, is again back at her desk after a week's vacation.

PEOPLE'S GAS & ELECTRIC CO.

Helen V. Kelley, Correspondent

Not long ago we read a poem in one of our "Tenney" books which began, "An office is a funny thing." The correspondent thinks it is funnier than that during vacation time—first one familiar face disappears, and just as you grow accustomed to that, the familiar face returns and another one disappears.

On Monday morning, July 21st, we welcomed back three to our fold, namely, Mr. Hammer, Miss Tenbroeck and Mrs. Vault.

Mr. Hammer reported a very interesting trip, and we are sure it must have been. He and his family traveled over 2,000 miles from Oswego to Ohio, and were not inconvenienced by any trouble with their car. This speaks pretty well for Mr. Hammer's driving—or else good fortune was on his side.

I am sure we are all glad to see Mrs. Vault's smile once again. Her vacation must have been a pleasant one, as she looks happier than ever.

Miss Tenbroeck, our electric bookkeeper, didn't go far on her vacation,

but she must have fared well if her appearance is any indication.

Maybe we'll have something to tell you about a field day before long. There are whispers in the air about "good location," etc.

Mr. Voll has joined our meter-reading force. We certainly appreciate Mr. Burnett for giving this place to him, as he did more than "his bit" in France, and makes an excellent meter-reader besides.

Speaking of France, reminds me of an account in one of our local newspapers, which said, in speaking of a returned soldier who brought home a French bride — "Besides her other accomplishments she speaks English fluently and is now learning to speak American."

The writer finds this almost too discriminating and would like to know what the difference is.

This happy bunch represents the girls of the P. G. & E. Co., at their "annual" outing at Fair Haven. They are in order of left to right:

Mrs. Vault.....Cashier
Miss TenBroeck..Electric Bookkeeper
Miss Duane.....Stenographer
Miss Powers.....Stenographer
Miss Kelly......"Correspondent"
Mrs. Hammer, Wife of Office Manager.
Mrs. Burnett, Wife of General Manager
.Mrs. Woods.....Telephone Operator.

Our successful drive against the quarter meters is daily becoming perfected, as the following figures will show.

Since Jan. 1, 1919, in addition to the numerous electric orders, our meter department, under the able direction of Mr. Fred Handley, has installed 733 regular gas meters and removed 734 quarter meters. While in reality we have lost one gas meter, we look for quite an increase in our gas revenue, in consideration of the many minimum charges lost on the quarter meters.

ROCKLAND LIGHT & POWER COMPANY

B. M. Carlisle, Correspondent

On June 3rd Mr. Frederick Perry found upon his desk a handsome bouquet of Columbia Roses, thirty-six in number, one for good measure, the occasion being his thirty-fifth anniversary with our Company as noted in July issue. Nothing could have pleased him more than flowers as a remembrance from his associates and he showed it audibly.

Some of us have vacationed, others are planning. Charles Tallman spent some of his time looking at or over the Ponies. Charley is a great admirer of good stock.

Charles Whetstone is now at Lake George throwing out the Big ones.

Walter Mammel has been sojourning down Philadelphia way, visiting his parents, also spent some time up New York State way, the writer spending a week among the Farmers of Hunterdon Co., N. J., where the subject of daylight saving is being discussed daily and nightly too, at the corner stores.

Harry Ebbets will no doubt spend his allotted time on the Hudson River, he daily spending his spare moments putting his craft, of which he is justly proud, in shape.

Our Net Gain in meters for 6 months to July 1, 1919 is 661. Same time 1918 was 363.

Since Charles H. Tenney & Co. undertook management with approximately 5000 meters in 1912 we have jumped to date, July 1, 1919, to 8098 meters.

The strains of the following old sea ditty can now be heard daily floating out through the partly open door of Mr. Peirce's office:

"And now that it's a baby boy I know
what I will do
His Jacket shall be made of red and his
breeches made of blue,
And I'll make him pace the quarterdeck
as his daddy used to do."
While all his fellow employees say,
"God bless his darling mother and may
its days be sweet,
And may no thorny pathway be trodden
by its feet."

—Anon.

The newcomer has just arrived.

SALEM ELECTRIC LIGHTING COMPANY

FRED E. SAWYER, Correspondent

W. Earle Brown, formerly Assistant Storekeeper, returned from the Navy to work for the Company, Monday, July 28th.

P. J. Kelley, formerly Garage Foreman, returned from the Balloon Division of the U. S. Service to work for the Company in his former position.

J. L. Cuffe returned from the Service, 4th Reg. Motor Mechanics, and started working for the Company July 21st in the Underground Department.

Mr. Earle R. Lee, Garage Foreman during the absence of Mr. Kelley, will be night patrolman.

The Correspondent extends congratulations to Mr. Cookson, Manager at Montpelier, and wishes him success in his new field of labor.

Don D. Sargent is to erect a new shoe factory in Salem in connection with his already large establishment. This will add about 100 H.P. to his present load of 122 H.P.

Mr. Vernon K. Hoyt, clerk, is to leave us the 15th of August to assume the duties of Chief Clerk of the Fitchburg Gas & Electric Co. We are sorry to lose him but we cannot stop the wheels of Progress. What is Salem's loss is Fitchburg's gain. We wish him well.

Mr. Arthur Caron, janitor of our office, is taking a month's vacation in Canada.

We take pleasure at this time in introducing to the readers of Tenney Service Mr. Frederic R. Bussler, who comes to the Salem Electric Lighting Company and joined the band of Tenney Workers, Monday, July 21st, 1919, as Plant Superintendent, in charge of our Generating Station.

Mr. Bussler was recently released from duty in the Navy where he served as Electrical Officer on board the cruiser

MR. FREDERICK R. BUSSLER

Charlestown and later as an Engineer Officer on board the battleship New York based with the British Grand Fleet in the North Sea.

Mr. Bussler is a graduate of the Bliss Electrical School of Washington, D.C., and has been connected with the Electrical and Engineering Industry for twenty-one years, during which time he has been connected with the Muncy Electric Light Heat and Power Company, located in Penn., as Chief Engineer and Electrician, also as Superintendent of the Bellefont Electric Co., of Penn.

Before entering the Navy in April 1917, Mr. Bussler was a Commercial Engineer for the Edison Electric Illuminating Company of Boston.

Mr. Bussler was present at our weekly meeting of the Heads of Departments, July 12th, the day following his arrival in Salem, when he was introduced and welcomed and was assured the assistance of all. We wish him success and know the Boys are all with him.

SALEM ELECTRIC LIGHTING COMPANY

ELIZABETH T. SMITH, Correspondent

Miss Janet Wilkinson, our Electric Ledger Clerk, has just returned from a two weeks' vacation among the lakes and mountains of New Hampshire. When it comes to exploring Lost River, Janet, we are glad you were small and consequently did not get stuck in the cracks. She had a great time and was glad (?) to get back.

Our telephone operator, Miss Gertrude Hoyt, spent a week in Gardner, Maine, and another in Provincetown, Mass. She reported that she had a "perfectly lovely" time. She went fishing while in Maine; yes, and actually caught a pickerel and a white bass.

Opportunity knocks at every one's door, but for goodness sake don't stay home and wait for it.

In regard to the monthly report, some of you Companies will have to get a "hustle on" to get ahead of Salem. We were very near the top last month and we won't be satisfied till we're first.

Miss Sally K. Temple, another Electric Ledger Clerk, has this morning returned from two weeks spent at Salisbury Beach. She came up for the outing last Wednesday. During the first week she was away, she wrote us there was nothing to do but eat, sleep and go in bathing. We thought last week, that she forgot to add "and get tanned."

Boston Electrolytic Oxygen Company, Correspondent, take notice.

There are smiles that make us happy,
  There are smiles that make us sad;
There are smiles that take away the
    harshness
  Of the word that's spoken when we're
    mad
There are smiles that have a subtle
    meaning,
  (Do you get the idea, now, my
    friend?)
It's the KIND of smiles, I would inform
    you,
  Not simply smiling to the end.

If the Correspondent doesn't know that there is a difference in smiles, and he will come to Salem, we will demonstrate.

One of our meter readers, Mr. George F. Wicke, nearly caught a pickpocket while on his vacation. When on his way to Provincetown in the elevated train, he felt a hand slide into his pocket. Reaching down, he quickly grabbed the wrist, at nearly the same moment a large man from behind, seized him by the arms and the thief got away.

Our readers are always on the job. If Mr. Vicke had not have been on the alert he might have had to walk home.

SPRINGFIELD GAS LIGHT CO.

CARL M. WALKER, Correspondent

The former service men are happy because their Bonus Blanks have come at last. They are busy filling them out. We hope the boys will get their money without further delay.

Our Holyoke Water Heater Campaign is progressing splendidly. We set out to pull in at least 1,000 sales in a month and in three weeks' time we pulled in about twelve hundred.

Messrs. Kennedy, Mansfield, Rich and Young are with us again.

"There is no better fertilizer for trouble than the constant telling of it."

The vacation season is here again and it's a most welcome one.

Miss Carrie Grout started on her vacation July 3rd. We read a few days later she was soon to marry Sergeant Walker of the Regular Army. On Friday, July 18th, the office girls surprised her in her home and presented her with a chest of silver.

Miss Cora Johnson and Miss Margaret Shea are also on their vacations. Miss Johnson is at Sandwich, Mass., and Miss Shea is "somewhere" on the Maine beach. Miss Shea went in her new flivver. So far we haven't read that they are going to follow Miss Grout's example.

Mr. Galbraith, our Office Manager, not satisfied with a three-day trip to the wild and wooley country, braved a longer journey over the week end of the Fourth. This time he took his wife and son, also his sister, Miss Carolyn Galbraith of the billing department. They covered 600 miles, going through the Berkshires, Green Mountains and White Mountains.

SUBURBAN GAS & ELECTRIC COMPANY

MISS ALICE M. BARRY, Correspondent

On Thursday, July 10th, Dr. E. W. Bullock, of Haverhill, visited our plant and office and gave a very interesting lecture and demonstration on first-aid.

Salvatore Paone and Maurice Finn have returned to work after spending a week in the Boy Scout Camp, Mansfield, Mass.

Miss Bertha Bath spent her vacation at Chester, N. H.

We were very pleased to receive a call from Joseph Barlow who returned from France, last week, after twenty-two months in the service.

William I. Macaulay, First Lieutenant, has arrved in Newport News, Virginia, after his second voyage across. He expects to sail again very soon.

Miss Catherine Murphy has recently been employed as Works Clerk.

A joint field day between the Salem Electric Lighting Company and the Suburban Gas & Electric Company was held Wednesday, July 23rd, at Wardhurst, Lynnfield. Everyone who attended will agree that it was a grand success.

CHARLES H. TENNEY & CO.

Ralph Trower is the new boy in the Mailing Department.

Miss Katherine Tichnor has accepted a position as stenographer in the Investment Department.

We wish to correct the spelling of the name of one of our new stenographers as it appeared in the last issue. It should have been Miss Florence Collett.

Miss Eva Rowe is a new member of the stenographic force. Miss Rowe is Mr. Alexander's stenographer.

Miss Anna C. Reynolds is taking the place as Mr. Hall's stenographer, made vacant by the resignation of Miss Hendrickson.

The drafting division of the Construction Department have taken over Room 502 of the fifth floor for their own use. The personel consists of F. H. Busby, in charge; H. W. French, W. S. Small, Jr., R. R. Hammer.

The Engineering Department is investigating the ventilating system of the Hotel Kimball at Springfield, Mass.

They are also doing the efficiency engineering at the Monson and Taunton State Hospitals; also at the Boston Athletic Association Building.

The Chemical Engineering Department have just completed the installation at the Malden Laboratry of an electric muffle furnace and a grinding equipment for testing coals. These new additions make the laboratory one of the best in the State.

Mr. L. J. Willien, Chemical Engineer, has just completed a paper entitled "Steaming in Retorts" to be presented at the October meeting of the American Gas Association.

The movements of the lower jaw are what keep this from being a Peaceable World.

Lieutenant A. L. Nelson, Assistant Electrical Engineer, dropped in the other day to renew old acquaintances. Lieut. Nelson expects his discharge shortly, so will soon be back with us.

Mr. G. A. Rust spent the week end, including July 4th, in walking over the Presidential Range at Randolph, N. H., to Crawford. He spent the nights at the Appalachian Mountain Club huts. On July 4th, while we sweltered with a temperature around 100, he was eating his lunch beside a bed of ice.

The New Business Department has secured a commission for the Engineering Department to do the engineering on a new boiler room for the Stanley Works, New Britain, Conn. The equipment is to take care of a development of about 1600 K.W.

Another commission closed by the New Business Department is to investigate the possibility of obtaining lighting service at the summer home of H. P. Wood, at Wolfeborough, N. H.

ENGINEERING DEPARTMENT

On Monday afternoon, July 21st, Mr. F. C. Sargent, the engineering manager, called a meeting of the engineers of the Tenney Company to outline the policies in doing work of all kinds for any and all who want construction done. The various engineers of our organization will act as consultants in their respective branches, while all the designing is to be under the direction of Mr. C. W. Hodsdon. The field work will be organized under competent resident engineers, while the supervision and details of progress for the efficiency of this work in the field will be taken care of by Mr. A. J. Harty, who will be known as superintendent of construction. Mr. Alexander Macomber, the assistant engineering manager, will be the direct executive on all matters relating to this phase of the work so as to relieve some part of the arduous duties of the engineering manager.

We look for more unity and co-operation among our engineering force in the defining and placing of actual responsibility under these conditions and feel confident of rendering our clients the most satisfactory service.

Tenney Service Association

Officers and Comittees, 1919-1920

President, S. Fred Smith
Vice-President, G. E. Cockings
Secretary, G. W. Hurn

Executive Committee

S. Fred Smith, *Chairman*
C. R. Hayes, *Vice-Chairman*
J. T. Day
Palmer York

Committee on Policy and Management

F. L. Ball, *Chairman*
Palmer York, *Vice-Chairman*
J. T. Day
L. J. Chase
W. H. Bradley

Committee on Electric Appliances

G. D. Baxter, *Chairman*
G. E. Cockings, *Vice-Chairman*
G. W. Hurn
C. J. Cookson
John West

Committee on Gas Appliances

E. C. Peebles, *Chairman*
C. F. Chisholm, *Vice-Chairman*
C. E. Paige
R. F. Burnett
John West

Committee on Rates

John West, *Chairman*
C. R. Hayes
G. W. Hurn

SURELY man has come to himself only when he has found the best that is in him and has satisfied his heart with the highest achievement he is fit for. It is only then that he knows of what he is capable and what his heart demands. And, assuredly, no thoughtful man ever came to the end of his life, and had time and a little space of calm from which to look back upon it, who did not know and acknowledge that it was what he had done unselfishly and for others, and nothing else, that satisfied him in the retrospect, and made him feel that he had played the man. That alone seems to him the real measure of himself, the real standard of his manhood.

—*Woodrow Wilson.*